## **AMENDMENTS TO THE CLAIMS:**

- 1. (Currently Amended) A method of preparation of protein sample solution for analysis, wherein the protein sample solution contains one or more of non-protein agents selected from a group consisting of an anionic detergent, a cationic detergent, a non-ionic detergent, a zwitterionic detergent, a sulfobutane, a lipid, a natural product, a polysaccharide, a polyphenol, a tannin, an alkaloid, a pigment, a reducing agent, a protein denaturant, an amine, Hepes, a tris-buffer, a salt, and a common laboratory agent, wherein after the preparation of the protein sample the protein in the sample is quantitatively recovered and is substantially free from the non-protein agents originally present in the sample, comprises the following steps:
- (a) treating the protein sample solution with an acidic agent, and one or both agents selected from a group consisting of a salt and a precipitate-forming agent, wherein the treatment of the protein with the precipitate-forming agent follows the treatment of the protein sample solution with the acidic agent;
- (b) centrifuge the protein sample solution of the step (a) at least once to form a tight pellet at the bottom of the tube, remove and discard the supernatant and collect a protein pellet;
- (c) suspend and mix the protein pellet of the step (b) at least once in at least one medium selected from a group consisting of a mixture of aqueous-organic solvent and an organic solvent;
- (d) centrifuge the protein pellet suspension of the step (c) and collect the protein pellet; and

- (e) suspend the protein pellet of the step (d) in a protein pellet solubilization reagent buffer, wherein the reagent buffer is provided with an acid neutralizing agent in a sufficient amount to substantially netruralize the acid captured in the protein pellet to facilitate a desired protein solubilization.
- 2. (Currently Amended) The method of protein precipitation according to Claim 1 wherein the protein sample solution contains an ionic detergent sodium dodecyl sulfate SDS.
- 3. (Original) The method of protein precipitation according to Claim 2, wherein the salt agent is in a amount effective to precipitate the detergent present in the protein solution.
- 4. (Original) The method of Claim 1 wherein the salt is provided in a solution with the acid agent.
- 5. (Original) The method of Claim 1 wherein the precipitate-forming agent is a deoxycholate.
- 6. (Original) The method according to Claim 1 wherein the precipitateforming agent is soluble and extractable in the organic solvent.

- 7. (Original) The method according to Claim 1 wherein the organic solvent is selected from a group consisting of an acetone and an alcohol.
- 8. (Original) The method of Claim 1 further comprises first suspending the protein pellet of the step (b) in an aqueous medium followed by suspension in the organic solvent.
- 9. (Original) The method of Claim 1 further comprises mixing a polysaccharide solution with the protein pellet of the step (b).
- 10. (Original) The method according to Claim 1 wherein the pellet solubilization reagent buffer is provided with a pH indicator dye.
- 11. (Original) The method of Claim 1 further comprises vigorously agitating and/or grinding the protein pellet suspended in the pellet solubilization reagent buffer in the step (e).
- 12. (Original) The method of Claim 1 further comprises addition of an acid neutralizing agent into the pellet solubilization buffer to shift the pH of the suspension to favor desired protein solubilization.
- 13. (Original) The method of Claim 1 wherein the centrifugation in the step(b) is repeated to remove residual supernatant.

- 4 -

- 14. (Currently Amended) The method according to Claim 13 [[1]] wherein <u>a</u> the second centrifugation in the step (b) is performed by placing the tube in the centrifuge in the sample orientation as before.
- 15. (Original) The method of Claim 1 further comprises addition of an acid neutralizing agent to neutralize approximately or greater than 0.25 nM acid per microgram protein in the pellet to favor desired protein solubilization.
- 16. (Currently Amended) A method of preparation of protein sample solution for analysis, wherein the protein sample solution contains one or more of non-protein agents selected from a group consisting of an anionic detergent, a cationic detergents, a non-ionic detergent, a zwitterionic detergent, a sulfobutane, a lipid, a natural product, a salt, and a common laboratory agent, wherein after the preparation of the protein sample the protein in the sample is quantitatively recovered and is substantially free from the non-protein agents originally present in the sample, comprises the following steps:
- (a) treating the protein sample solution with an acidic agent, and one or both agents selected from a group consisting of a salt and a precipitate-forming agent, wherein the treatment of the protein with the precipitate-forming agent follows the treatment of the protein sample solution with the acidic agent;
- (b) centrifuge the protein sample solution of the step (a) to form a tight pellet at the bottom of the tube, remove and discard the supernatant and repeat the

centrifugation to remove the residual supernatant with a tipped device and collect a protein pellet;

- (c) suspend and mix the protein pellet of the step (b) at least once in at least one medium selected from a group consisting of a mixture of aqueous-organic solvent and an organic solvent;
- (d) centrifuge the protein pellet suspension of step (c) and collect the protein pellet; and
- (e) suspend the protein pellet of the step (d) in a protein pellet solubilization reagent buffer, wherein the reagent buffer is provided with an acid neutralizing agent to neutralize approximately or greater than 0.25nM acid per micro-gram protein in the pellet to facilitate a desired protein solubilization.
- 17. (Original) The method of Claim 16 further comprises mixing a polysaccharide with the protein pellet of the step (b).
- 18. (Currently Amended) The method of protein precipitation according to Claim 16 wherein the protein sample solution contains an ionic detergent sodium dodecyl sulfate SDS.
- 19. (Original) The method of protein precipitation according to Claim 18, wherein the salt agent is in a amount effective to precipitate the detergent present in the protein solution.

- 20. (Original) The method of Claim 16 wherein the salt is provided in a solution with the acid agent.
- 21. (Original) The method according to Claim 16 wherein the pellet solubilization reagent buffer is provided with a pH indicator dye.
- 22. (Original) The method of Claim 16 further comprises vigorously agitating and/or grinding the protein pellet suspended in the pellet solubilization reagent buffer in the step (e).
- 23. (Currently Amended) A method of total protein assay, wherein the protein sample contains one or more of non-protein agents selected from a group consisting of an anionic detergent, a cationic detergent, a non-ionic detergent, a zerterionic detergent, a sulfobutane, a lipid, a natural product, a salt, and a common laboratory agent, comprises the following steps:
- (a) treating the protein sample solution with an acidic agent, and one or both agents selected from a group consisting of a salt and a precipitate-forming agent, wherein the treatment of the protein with the precipitate-forming agent follows the treatment of the protein sample solution with the acidic agent;
- (b) centrifuge the protein sample solution of the step (a) at least once to form a tight pellet at the bottom of the tube, remove and discard the supernatant and collect a protein pellet;

- (c) suspend the protein pellet of the step (b) with one or more alkaline reagents of a protein assay to produce a characteristic protein reaction; and
- (d) compare the color density of the protein color reaction with the color density of a protein reaction of known protein concentration.